

TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR § 1.97(b), 1.97(c), or 1.97(d)			Attny. Docket No. 2003U013.US
In Re Application of: Laughlin G. McCullough			
U.S. Serial No. Unassigned	Filing Date April 21, 2004	Examiner Unassigned	Group Art Unit Unassigned

Address to:
**Mail Stop Patent Applications
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450**

37 CFR § 1.97(b)

- ☒ The Information Disclosure Statement submitted herewith is being filed within three months of the filing date of a national application other than a continued prosecution application under § 1.53(d); within three months of the date of entry of the national stage as set forth in § 1.491 in an international application; before the mailing of a first Office Action on the merits; or before the mailing of a first Office Action after the filing of a request for continued examination under § 1.114.

37 CFR § 1.97(c)

- ☐ The Information Disclosure Statement submitted herewith is being filed after three months of the filing date of a national application other than a continued prosecution application under § 1.53(d); after three months of the date of entry of the national stage as set forth in § 1.491 in an international application; after the mailing of a first Office Action on the merits; or after the mailing of a first Office Action after the filing of a request for continued examination under § 1.114, but before the mailing date of:

1. a Final Action under § 1.113,
2. a Notice of Allowance under § 1.311, or
3. an action that otherwise closes prosecution in the application,

and is accompanied by either:

- ☐ the fee as set forth in § 1.17(p), or
☐ the following statement under § 1.97(e)(1): each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement.

37 CFR § 1.97(d)

- ☐ The Information Disclosure Statement submitted herewith is being filed after a Final Action under § 1.113, a Notice of Allowance under § 1.311, or an action that otherwise closes prosecution in the application, but before, or simultaneously with, the payment of the issue fee. Submitted herewith is the fee as set forth in § 1.17(p) and the following statement under 37 CFR § 1.97(e)(1): each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement.

Applicant hereby request consideration of the Information Disclosure Statement, USPTO form 1449, submitted herewith.

☒ Legible copies of the references are enclosed.

☐ This application is a:
☐ Continuation / Divisional,
☐ Continuation-in-Part,

of U.S.S.N. _____. Copies of the cited references are
☐ enclosed; ☐ not enclosed. References are available in the parent application(s) if not enclosed.

The Commissioner is hereby authorized to charge any additional fees which may be required by this paper, or credit any overpayment, to Deposit Account Number 50-0589.

April 21/04
Date

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INFORMATION DISCLOSURE STATEMENT <i>(Use several sheets if necessary)</i>				ATTY. DOCKET NO.		SERIAL NO.	
				2003U031.US		Unassigned	
				APPLICANT			
				Fred E. Ehrman			
				FILING DATE		GROUP	
		10/15/2003		Unassigned			
U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	BA						
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	PUBL. DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
							YES NO
	BB						
OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages of Publication, Etc.)							
	BC	Lehtinen, Christel et al. "A Comparison of (η -butCp) ₂ ZrCl ₂ and Other Simple Metallocenes with Bridged Et(Ind) ₂ ZrCl ₂ and Me ₂ Si(Ind) ₂ ZrCl ₂ Catalysts in Ethene/Propene Copolymerization," European Polymer Journal 33(1), 115-120 (1997).					
	BD	Suhm, J., "Influence of metallocene structures on ethene copolymerization with 1-butene and 1-octene," Journal of Molecular Catalysis A: Chemical 128(1-3) 215-227 (1998).					
	BE	Löfgren, B., "New olefin copolymers synthesized by metallocenes," Recent Res. Devel. in Macromol. Res. , 3, 117-131 (1998).					
	BF	Suhm, J., et al. "Temperature Dependence of Copolymerization Parameters in Ethene/1-Octene Copolymerization Using Homogeneous rac-Me ₂ Si(2-MeBenz[e]Ind) ₂ ZrCl ₂ /MAO Catalyst," Journal of Polymer Science, Part A: Polymer Chemistry 35, 735-740 (1997).					
	BG	Schneider, M.J., et al. "Influence of Indenyl Ligand Substitution Pattern on Metallocene-Catalyzed Ethene Copolymerization with 1-Octene," Macromolecules 30, 3164-3168 (1997).					
	BH	Karol, Frederick J., et al., "Features of Cyclopentadienyl Metal Catalysts for Ethylene Copolymerization in Gas and Liquid Phase" METALORGANIC CATALYSTS FOR SYNTHESIS AND POLYMERIZATION 629-642, (Walter Kaminsky, Ed., Springer 1999).					
	BI	Bruaseth, Ingvald et al. "Dual Site Ethene/1-Hexene Copolymerization with MAO Activated (1,2,4-Me ₃ Cp) ₂ ZrCl ₂ and (Me ₃ Cp) ₂ ZrCl ₂ Catalysts. Possible Transfer of Polymer Chains between the Sites," Macromolecules 36(9), 3026-3034 (2003).					
	BJ	Möhring, Petra C., "Homogeneous Group 4 metallocene Ziegler-Natta catalysts: the influence of cyclopentadienyl-ring substituents," Journal of Organometallic Chemistry 479, 1-29 (1994).					
	BK	Brintzinger, Hans H., "Stereospecific Olefin Polymerization with Chiral Metallocene Catalysts," Angew. Chem. Int. Ed. Engl. , 34, 1143-1170 (1995).					
EXAMINER				DATE CONSIDERED			
*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next comment to applicant							

BI

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				2003U013.US		Unassigned	
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				Laughlin G. McCullough			
				FILING DATE		GROUP	
04/21/2004		Unassigned					
U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	6,180,736	01/30/2001	Muhle et al.	526	160	
	AB	6,207,606	03/27/2001	Lue et al.	502	113	
	AC	6,388,115	05/14/2002	Crowther et al.	556	11	
	AD	6,339,134	01/15/2002	Crowther et al.	526	128	
	AE	6,489,413	12/03/2002	Floyd et al.	526	160	
	AF	6,410,659	06/25/2002	Maddox et al.	526	114	
	AG	6,642,400	11/04/2003	Holtcamp et al.	556	11	
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	PUBL. DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION <div style="display: flex; justify-content: space-between; font-size: small;"> YES NO </div>
	AH	WO 94/03506	02/17/1994	PCT			
	AI	WO 98/28350	07/02/1998	PCT			
	AJ	WO 03/008465	01/30/2003	PCT			
	AK	WO 03/008468	01/30/2003	PCT			
	AL	WO 03/037938	05/08/2003	PCT			
OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages of Publication, Etc.)							
	AM	Galland, G.B., et al., " <i>Linear low-density polyethylene synthesis promoted by homogeneous and supported catalysts</i> ," Polymer International 48 , 660-664 (1999).					
	AN	Wigum, Hanne, et al., " <i>Structure-Property Transition-State Model for the Copolymerization of Ethene and 1-Hexene with Experimental and Theoretical Applications to Novel Disilylene-Bridged Zirconocenes</i> ," Journal of Polymer Science, Part A: Polymer Chemistry 41 (11), 1622-1631 (2003).					
EXAMINER				DATE CONSIDERED			
*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line though citation if not in conformance and not considered. Include copy of this form with next comment to applicant							